

EMSP COMMUNICATION PRODUCTS

One of the goals of the EMSP is to focus the nation's science infrastructure on critical Department of Energy environmental problems. One of the "tried and true" ways to increase the general body of knowledge within the scientific community is through publication of research methods, results, and issues. EMSP research has provided a basis for numerous information exchanges through this method. EMSP researchers and staff have developed 2001 journal articles, papers, presentations, and other communication products. Many other news articles and press releases are either in development or planned as research within the program matures. The numbers of known publications and presentations as of October 31, 2001 are as follows:

- 674 Journal Articles
- 1 Media Report
- 45 Other (Encyclopedias, manuscripts)
- 38 Papers
- 37 Patent disclosures and applications
- 60 Posters
- 833 Presentations
- 6 Press Releases
- 185 Proceeding Contributions
- 68 Reports
- 54 Theses/Dissertations

NOTE: In instances where an author was not identified for a particular communication product, the lead principal investigator of the respective program has been listed as the author.

DEACTIVATION AND DECOMMISSIONING

Analytical Chemistry & Instrumentation

Project: 65001

Title: Development of Novel, Simple Multianalyte Sensors for Remote Environmental Analysis

PI: Dr. Sanford A. Asher

Institution: University of Pittsburgh

Publication Type: Journal

Holtz, J. H. & Asher, S. A. (1997). Intelligent polymerized crystalline colloidal array hydrogel film chemical sensing materials. *Nature*. 389, 829-832.

Holtz, J. H., Holtz, J. S. W., Munro, C. H., & Asher, S. A. (1998). Intelligent polymerized crystalline colloidal arrays: Novel chemical sensor materials. *Anal. Chem.* 70, 780-791.

Holtz, J., Weissman, J., Pan, G., & Asher, S. A. (1998). Mesoscopically periodic photonic crystal materials for linear and nonlinear optics and chemical sensing. *Material Research Soc.* 23, 44-50.